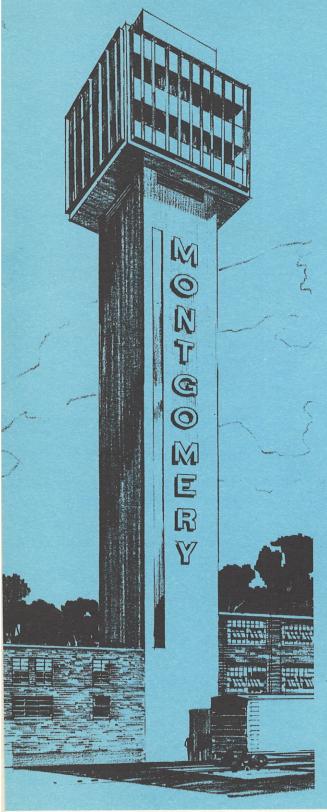


MONTGOMERY ELEVATOR COMPANY, MOLINE, ILL. 61265

MONTGOMERY ELEVATOR CO. LIMITED, TORONTO, ONTARIO • OFFICES IN PRINCIPAL CITIES OF NORTH AMERICA



FOR 75 YEARS

The Montgomery Elevator Company has maintained the highest standard of quality in design and manufacture of vertical transportation equipment.

industry "first"

The introduction, by Montgomery, of the V-Groove Traction Hoisting Machine in 1913 was one of the most important developments in the elevator industry. That design, a complete departure from the cable winding-drum type machine, is the basis of modern high-rise elevators.

Montgomery has introduced many other 'firsts' that are now 'industry standards':

> Close-Coupled Geared Hoist Machine Simplified Push Button Controls Permanent Magnet Floor Levelling Device Oil-Cushioned Car Safety

Measured Demand Group Supervisory Control

The Measured Demand Group Supervisory Control is the forerunner of the current Montgomery ESP-Electronic Sensor Pack System.

products

Montgomery's full product line includes:

Electric Elevators Geared, Gearless & Oil Hydraulic Passenger & Freight **Escalators** Power Walks and Power Ramps **Electric Dumbwaiters Automatic Parking Garage Elevators**

Stage, Sidewalk and Other Special Lifts Cross Over Bridges

Intricate Electrical Controls

research & development

A continuing program of Research and Development is a major Montgomery effort. A recent addition to this effort is Montgomery's high-rise research tower shown here. Specialized equipment in this tower laboratory, the tallest in North America, provides facilities for engineered-testing of existing and proposed elevator equipment. Montgomery's search for improved design, greater safety and more economical operation is unending.

sales & service

The Montgomery Sales and Service organization, second largest in the industry, has more than 120 offices (over 85 factory branches and 40 authorized Representatives) throughout North America (U.S., Canada, Mexico, Caribbean) and overseas. Montgomery is the largest independent exclusive elevator and escalator manufacturer in the Western Hemisphere.

Montgomery's seven manufacturing facilities, each fully staffed for the manufacture and assembly of elevator and escalator equipment are: Moline, Illinois (4); San Jose, California; Vancouver and Toronto, Canada.

The Roelofson division of Montgomery has served Eastern Canada for over 50 years. Roelofson division has greatly expanded manufacturing capabilities to produce the full Montgomery line, including escalators and ESP Group Supervisory Control elevator systems.

The Peterson & Cowan division, established in 1919 in Vancouver, has always enjoyed a leading position in the elevator/escalator industry in Western Canada.

ELEVATORS / ESCALATORS / POWER WALKS



Prudential Plaza Building, Denver, Colorado. 13 Montgomery Elevators (with elevator speeds to 1200 FPM) are in this attractive new 27 floor office building. Exceptional high speed performance and efficiency by these automatic elevator systems is produced by the Montgomery ESP MD2ZS (Electronic Sensor Programming, Measured Demand and Zones of Service) Group Supervisory Control.

SELECTION

The selection of vertical transportation equipment to suit specific needs should be made after careful analysis of project requirements. Determination of these requirements include the type, location and size of building, building population and traffic patterns. For assistance in the selection of functional and economical equipment, consult your local Montgomery Sales Office.



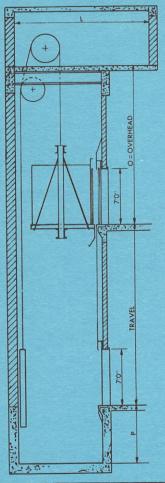
AND RAMPS

Carleton University — Arts I Tower, Ottawa, Ontario. Four Montgomery Gearless Passenger Elevators with speeds of 500 F.P.M. serving 22 floors.

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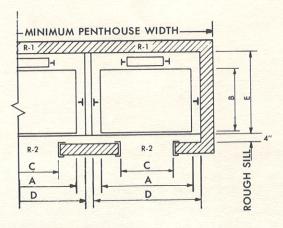
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PASSENGER ELEVATORS



HIGH SPEED TRACTION

High-Speed Traction Elevators meet the need for high quality performance, with speeds to 1200 fpm. Heavy traffic demands are served by ESP Group Supervisory Control Systems.



PLAN FOR ONE OR MORE ELEVATORS

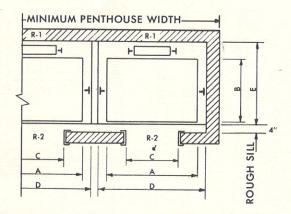
RECOMMENDED SIZES AND CAPACITIES										
TYPE BUILDING	G	AVERAGE OFFICE HOTEL			LARGE OFFICE OR STORE					
CAPACIT	Υ	2500#	300	0#		3500#				
A B C *D	٠	7'-0'' 5'-0'' 3'-6'' 8'-4'' 6'-6''	7'-(5'-(3'-(8'-4 7'-(6'' 6'' 4''	7'-0'' 6'-2'' 3'-8'' 8'-4'' 7'-8''					
MINIM	MUM PI	T-OVERHE	AD & M	ACHINE	ROOM DI	MENSIONS	3			
SPEED	400	500	600	700	800	1000	1200			
L O P	23'-0' 17'-7' 7'-4'	" 18'-4"	23'-0'' 19'-5'' 8'-11''	23'-0" 21'-6" 12'-6"	24'- 0'' 21'-11'' 12'- 6''	26'- 0'' 25'- 6'' 12'-10''	28'-0'' 27'-0'' 15'-2''			

- 1. Reactions include allowances for impact but DO NOT include weight of con-
- 2. Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI code requirements. Local codes may vary these requirements.
- 3. Layouts and dimensions shown are for center opening type entrances.
- Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
- 5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
 For speeds above 700 f.p.m. add 2" to dimension D.

		A SHARE SHARE SHARE	
CAPACITY	SPEED	R-1	R-2
	400	25000	15000
	500	26000	16000
	600	28000	18000
2500#	700	29000	19000
2500#	800	30000	20000
	1000	31000	21000
	1200	32000	22000
	400	26000	15000
	500	27000	16000
	600	29000	18000
3000#	700	30000	19000
	800	31000	20000
	1000	32000	21000
	1200	33000	22000
	400	30000	21000
	500	32000	22000
	600	34000	23500
3500#	700	36000	25000
	800	39000	27500
	1000	42000	29000
	1200	44000	30000

MEDIUM AND LOW SPEED TRACTION

Medium and Low Speed Traction Elevators perform efficiently and economically when serving traffic demands in medium and low rise buildings.

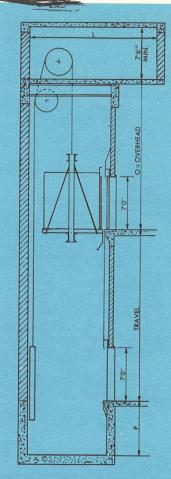


PLAN FOR ONE OR MORE ELEVATORS

RECOMMENDED SIZES AND CAPACITIES											
TYPE BUILDING	SMALL APART- MENT		SMALL OFFICE				ERAG HO	E OF	FICE	LARGE OFFICE OR STORE	
CAPACITY	1200#	2000	#	250	00#	30	000#	3500#			
A B C D	5'-0'' 4'-0'' 2'-6'' 6'-4'' 5'-4''	4'-5 3'-0 7'-8	6'-4'' 4'-5'' 3'-0'' 7'-8'' 5'-9''		7'-0'' 5'-0'' 3'-6'' 8'-4'' 6'-6''		'-0'' '-6'' '-6'' '-4''	7'-0'' 6'-2'' 3'-8'' 8'-4'' 7'-8''			
MINIMUN	PIT-OVE	RHEAD	& M	ACHIN	IE RO	OM	DIMENS	SIONS			
ŚPEED	100	200	2	250	30	00	350	400			
L O · p	-12'-6'' 16'-6'' 4'-0''	12'-6'' 16'-6'' 5'-6''	2'-6'' 12'- 6'-6'' 16'-		'- 6'' 13'- '-11'' 16'-		13'- 6" 13'- 16'-11" 17'-		13'-6 17'-3 6'-9'	" 17'-7"	

- Reactions include allowances for impact but DO NOT include weight of concrete slab.
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI code requirements. Local codes may vary these requirements.
- 3. Layouts and dimensions shown are for center opening type entrances. 4. Consult your Montgomery Representative for specific recommendations
- where space is limited or other conditions may necessitate further study.

 5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.



OVERHEAD LOA	ADS/LBS. APPR	OXIMATE PER	ELEVATOR
CAPACITY	SPEED FPM	R-1	R-2
1200#	100	12000	6500
2000#	100	12500	8800
	200	15200	9900
	250	15500	10800
	300	15800	11000
	350	19800	12000
	400	24000	14500
2500#	100	14900	10300
	200	16700	11500
	250	17200	12300
	300	17500	12500
	350	20400	12800
	400	25000	15000
3000#	100	17100	12100
	200	19400	12200
	250	19800	12600
	300	20200	13200
	350	20400	13300
	400	26500	16000
3500#	100	18300	13300
	200	21000	14100
	250	21300	14400
	300	21800	14700
	350	25200	15100
	400	28000	16800

PASSENGER ELEVATORS

1:1 ROPING ARRANGEMENT

is used when only moderate overhead clearance is available, and only when a shallow pit depth is feasible.

RECOMMENDED SIZES & CAPACITIES

TYPE BUILDING	SMALL APART- MENT	SMALL OFFICE	AVERAGE HO	LARGE OFFICE OR STORE	
CAPACITY	1200#	2000#	2500#	3500#	
A B C D E F G H	5'-0" 4'-0" 2'-6" 6'-4" 5'-4" 4'-5" 8"	6'- 4" 4'- 5" 3'- 0" 7'- 8" 5'- 9" 4'-10" 8" 8"	7'-0" 5'-0" 3'-6" 8'-4" 6'-6" 5'-5" 8"	7'- 0" 5'- 6" 3'- 6" 8'- 4" 7'- 0" 5'-11" 8" 8"	7'- 0" 6'- 2" 3'-10" 8'- 4" 7'- 8" 6'- 7" 8"
			MACHINE PIT DIMEN		

SPEED	100	200	250	300	350
L	9'-6''	12'-0''	12'-0''	12'-0''	12'- 0''
*0	16'-7''	17'-1''	17'-5''	17'-6''	17'- 9''
P	4'-0''	5'-8''	6'-0''	6'-6''	6'-11''

2:1 ROPING ARRANGEMENT

permits a minimum overhead installation. Because of the sheave arrangement, it is necessary to have a greater pit depth than for a comparable 1:1 installation.

RECOMMENDED SIZES & CAPACITIES

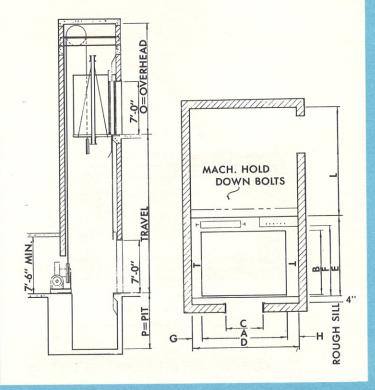
TYPE BUILDING	SMALL APART- MENT	SMALL OFFICE	AVERAGE OFFICE HOTEL		
CAPACITY	1200#	2000#	2500#	3000#	
A B C D E F G H	5'- 0'' 4'- 0'' 2'- 6'' 6'-10'' 5'- 4'' 4'- 5'' 10''	6'- 4'' 4'- 5'' 3'- 0'' 8'- 2'' 5'- 9'' 4'-10'' 10''	7'- 0'' 5'- 0'' 3'- 6'' 8'-10'' 6'- 6'' 5'- 5'' 10''	7'- 0'' 5'- 6'' 3'- 6'' 8'-10'' 7'- 0'' 5'-11'' 10''	

RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

SPEED	100	200	250	300
L	9'- 6''	12'-0''	12'- 0''	12'-0''
O	12'-10''	13'-0''	13'- 5''	13'-6''
P	5'- 6''	6'-6''	6'-11''	7'-4''

BASEMENT TRACTION

Basement traction elevators are utilized for limited overhead conditions in new and existing buildings. This type of elevator facilitates future floor expansion.

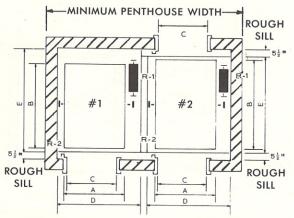


- 1. Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI code requirements. Local codes may vary these requirements.
- 2. Layouts and dimensions shown are for center opening type entrances.
- 3. Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
- *4. The overhead dimension can be reduced 1'-0" if the cab selected is kept to a minimum height.

 5. All data is general. Consult your local Montgomery
- Representative for exact information for your working drawings.

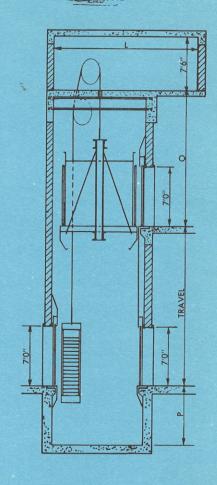
HOSPITAL TRACTION

Hospital Traction Elevators are designed in a wide range of speeds for individual applications. Emergency and independent service as well as auxiliary power features are available.



FRONT ONLY, FRONT AND REAR OPENINGS – ONE OR MORE ELEVATORS

RECOMMENDED SIZES & CAPACITIES											
CAPACITY	3	500#		4000#	50	00#					
A B C D E	#1 #2 5'-4" 5'-4" 8'-4" 8'-91/2" 3'-8" 3'-8" 7'-5" 7'-5" 8'-9" 9'-2"		8'-8' 4'-0' 7'-9'	9'-1½'' 4'-0'' 7'-9''	#1 6'- 4'' 8'-10'' 4'- 6'' 8'- 5'' 9'- 3''	4'-6"					
MINIMUM	MINIMUM PIT, OVERHEAD AND MACHINE ROOM DIMENSIONS										
SPEED L O P	1	75 7'-6'' 6'-6'' 4'-0''	100 17'-6'' 16'-6'' 4'-0''	200 17'-6'' 16'-6'' 5'-6''	350 17'-6" 17'-3" 6'-9"	500 24'-0'' 18'-4'' 8'-8''					

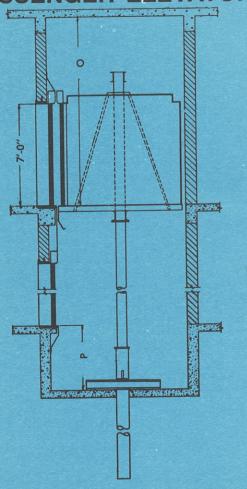


AND RAMPS

APPROXIMATE OVERHEAD LOADS IN LBS. PER PASSENGER ELEVATOR										
CAPACITY	SPEED	R-1	R-2							
3500#	75	19300	13700							
	100	19500	14000							
	200	23000	15000							
	350	27400	16000							
	500	33000	23000							
4000#	75	20600	14800							
	100	20900	15200							
	200	23900	15800							
	350	27900	17700							
	500	34000	24000							
5000#	200	25600	17300							
	350	29500	19600							
	500	35200	26000							

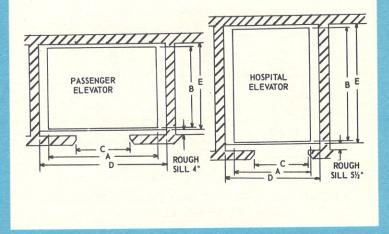
- Reactions include allowances for impact but DO NOT include weight of concrete slab.
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI code requirements. Local codes may vary these requirements.
- Layouts and dimensions shown are for two speed type entrances.
 Consult your Montgomery Representative for specific recommen-
- Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
- further study.
 5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

PASSENGER ELEVATORS



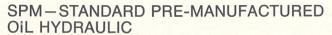
OIL HYDRAULIC

Oil Hydraulic Elevators are designed to meet varying performance requirements with car speeds to 200 feet per minute and maximum travel to 70 feet. They are easily adapted to most low rise buildings and frequently produce economic advantages over hoist rope traction elevators.

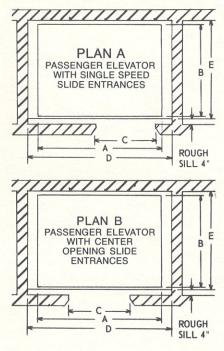


FOR OFFICE BUILDINGS, HOTELS, MOTELS APARTMENTS, BANKS, STORES, LIBRARIES, ETC.			HOSPITALS	AND INST	TITUTIONS			e Entrance le Entranc				
CAPACITY	1500#	2000#	2500#	3000#	3500#	CAPACITY	350	0#	400	00#	500	0#
A B C D E O	5'-4'' 4'-2'' 2'-8'' 6'-8'' 4'-7'' 13'-0''	6'- 4'' 4'- 5'' 3'- 0'' 7'- 8'' 4'-10''	7'-0'' 5'-0'' 3'-6'' 8'-4'' 5'-5''	7'- 0'' 5'- 6'' 3'- 6'' 8'- 4'' 5'-11'' 13'- 0''	8'- 0'' 5'- 6'' 4'- 0'' 9'- 4'' 5'-11'' 13'- 0''	A B C D E O P	1 5'-4" 8'-4" 3'-8" 6'-9" 8'-9" 13'-0"	2 5'-4" 8'-9½" 3'-8" 6'-9" 9'-2" 13'-0" 4'-0"	1 5'-8" 8'-8" 4'-0" 7'-3" 9'-1" 13'-0" 4'-0"	2 5'-8" 9'-1½" 4'-0" 7'-3" 9'-6" 13'-0" 4'-0"	1 6'- 4'' 8'-10'' 4'- 6'' 8'- 0'' 9'- 3'' 13'- 0'' 4'- 0''	2 6'-4" 9'-3½" 4'-6" 8'-0" 9'-8" 13'-0" 4'-0"

- Machine room sizes vary with car capacity and speed, and should be within 20 feet of the hoistway at the lowest landing.
- 2. Pit depth and overhead clearance are in accordance with ANSI code requirements. Local codes may vary these requirements.
- Layout and dimensions shown for passenger elevators based on center opening type entrances and for hospital elevators based on two speed type entrances.
- 4. Consult your local Montgomery office for more information regarding Notes 1 and 2.
- 5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

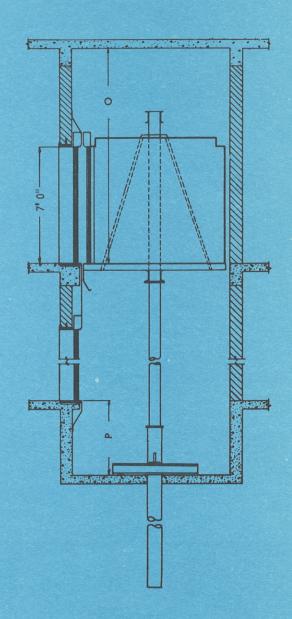


SPM Oil Hydraulic Elevators meet Montgomery's rigid standards of quality. STANDARD equipment is PRE-MANUFAC-TURED in three sizes, with the advantages of quick delivery, low cost and reliable service. SPM's offer travel to five floors, car speeds to 125 fpm, flexibility in entrance and fixture selection, and optional decor and finishes.



OFFICE BUILDIN	OFFICE BUILDINGS, HOTELS, APARTMENTS, ETC.									
HOISTWAY	SPM-1500	SPM-2000	SPM-2500							
DIMENSIONS	CAP 1500#	CAP 2000#	CAP 2500#							
A B C D E O P	5'-4" 4'-2" 2'-8" 6'-8" 4'-7" 13'-0" 4'-0"	6'- 4'' 4'- 5'' 3'- 0'' 7'- 8'' 4'-10'' 13'- 0'' 4'- 0''	7'-0" 5'-0" 3'-6" 8'-4" 5'-5" 13'-0" 4'-0"							

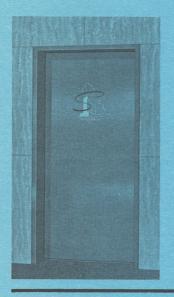
ENTRANCE ARRANGEMENT	SPM-1500	SPM-2000	SPM-2500
PLAN	Α	A or B	В

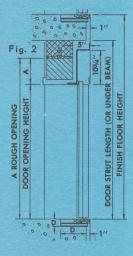


AND RAMPS

- 1. Machine room sizes vary with car capacity and speed, and should be within 20 feet of the hoistway at the lowest landing.
- 2. Pit depth and overhead clearance are in accordance with ANSI code requirements. Local codes may vary these requirements.
 3. Plan shown is based on single slide entrances. Center opening en-
- trances are also available.
 4. Dimensions "O" and "P" may be reduced to suit individual project
- requirements.
- 5. Consult your local Montgomery Office for more information regarding Notes 1, 2, 3, and 4.
- 6. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

ENTRANCES

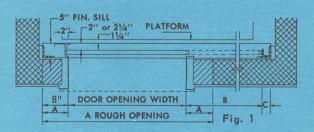




SECTION

SINGLE SPEED SLIDE

FEATURES - Maximum opening width approximately 1/2 width of car. Opening width should not exceed 3'-6". Adaptable for manual or power operation. Provides a sliding door at moderate cost.



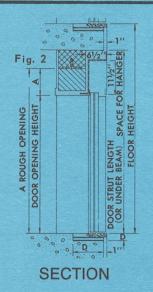
DIMENSION KEY-Wherever possible, front hoistway walls should not be erected

until after door equipment is installed.

A-Rough openings for standard Unit-type frames to be: Width-door opening plus
8" on each side. Height-door opening plus 8" above.

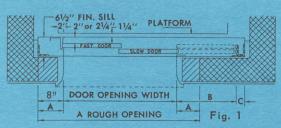
B-Landing door opening plus 1½".
C-5" for power operated doors, 3" for manual operated doors,
D-2" x 8" sill pocket entire width of hatch.





TWO SPEED SLIDE

FEATURES - Door opening approximately 2/3 width of car. For manual or power operation (Power operation recommended).



DIMENSION KEY-Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

A-Rough openings for standard Unit-type frames to be: Width-door opening plus

8" on each side. Height-door opening plus 8" above

B-½ landing door opening plus 1½". C-5" for power and manually operated door.

D-2" x 91/2" sill pocket entire width of hatch

DOOR FRAME PROFIL



TYPE 1



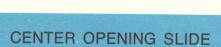
TYPE 2



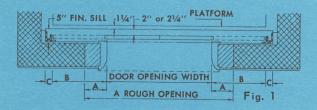


TYPE 4

TYPICAL PROFILES FOR SLIDING TYPE ENTRANCES



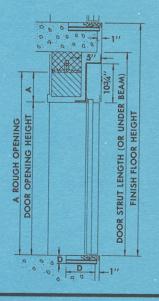
FEATURES-Provides opening approximately 1/2 width of car. Designed for power operation. Symmetrical design permits attractive architectural treatment. Simultaneous opening of each door panel, at equal speed, reduces opening time to 1/2 that required for other types of sliding doors.

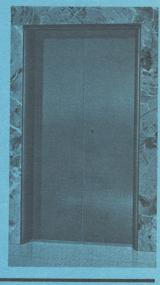


DIMENSION KEY-Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

A-Rough openings for standard Unit-type frames to be: Width-door openings plus 8" on each side. Height-door opening plus 8" above.

B-½ landing door opening plus ¾".
C-5" for power operated doors, 3" for manual operated doors.
D-2" x 8" sill pocket entire width of hatch.

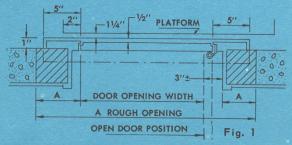




AND RAMPS

SINGLE SWING

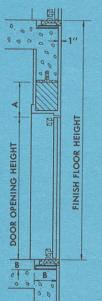
FEATURES-Lowest initial and maintenance cost. Suitable for automatic elevators, small apartments, hospitals and office buildings. Not recommended for intensive service requirements. Provides maximum opening width for small elevators. Recommended maximum width of swing door opening not to exceed 3'-6". Not suitable for power operation. Usually equipped with standard closer and check.



DIMENSION KEY-Wherever possible, front hoistway walls should not be erected until after door equipment is installed

A-Rough openings for standard Unit-type frames to be: Width-door opening plus 8" on each side. Height-door opening plus 8" above.

B-2" x 8" sill pocket entire width of hatch.





Entrance designs shown are available in a wide range of finishes and materials-baked enamel, stainless steel, bronze, duranodic aluminum and plastic laminate. Jamb profiles are optional. Special design arrangements such as three speed slide opening or two speed center opening slide can be furnished. Other features such as transom panels, monograms, and kickplates are optional.

ESP GROUP SUPERVISORY CONTROL SYSTEM

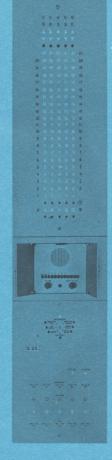
A Registered Trade Mark of the Montgomery Elevator Company

Montgomery's ESP Group Supervisory Control with Measured Demand System and Electronic Sensor Programming provides tomorrow's ultimate in elevator service, today.

ESP anticipates each demand for service throughout the building and positions the elevators in the system for immediate response. ESP automatically adjusts to the constantly changing traffic demands, fully utilizing each elevator in the system, under every condition in the wide variation of traffic requirements from heavy incoming traffic to heavy outgoing traffic and to every possibility between these extremes.

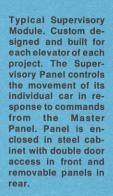
ESP with ZS (Zones of Service) automatically parks the elevators within selected zones throughout the building during periods of light traffic demand. This system assures immediate response to any demand for service, with minimum car movement. ZS reduces power consumption and equipment wear by limiting car movement only to that necessary to service traffic demand.

The flexibility of ESP permits engineered adjustment to the precise requirements of each building. Montgomery engineers carefully determine these requirements and assemble the basic module of the ESP system to exactly match the traffic demand.

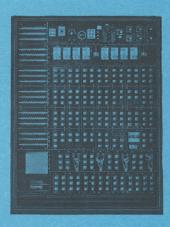


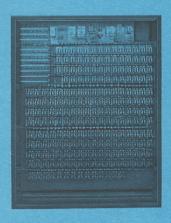
The Master Control and Indicator Panel monitors the overall operation of the entire elevator system. This panel is normally located in the lobby of the building adjacent to elevators. Each panel is custom designed and engineered for that particular project. The panel shown is typical. Intercom is optional.

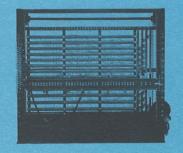
Typical Master Module. This electronic brain of the ESP **Group Supervisory** Control system is custom designed and built for each project. Its function is to evaluate traffic demand and coordinate the movement of the group of elevators. Panel is enclosed in steel cabinet with double door access in front and removable panels in rear.



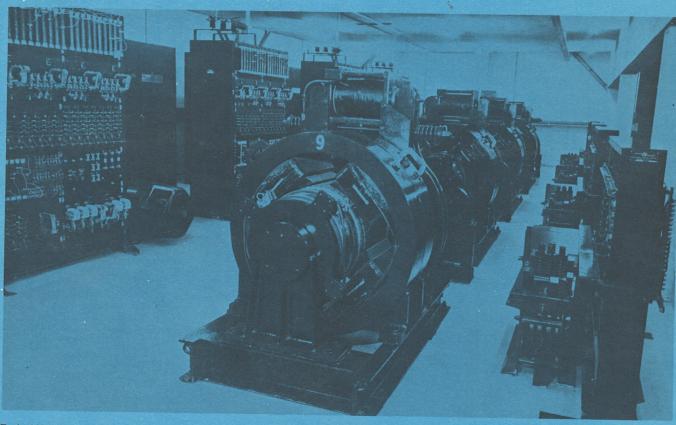
Typical Selector Module. Selector is constructed with fixed ratio proportion allowing accurate adjustments that remain set. Cut-off points preset at factory. The main function of the selector is to sense the position and direction of travel of the car in the hoistway and to provide the slow down command signal to the car prior to making a stop.







TYPICAL EQUIPMENT ROOM ARRANGEMENT and LOBBY ELEVATOR ENTRANCES



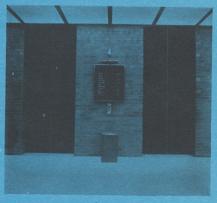
Typical Montgomery Elevator equipment room showing Control Panels, Motor Generators, Gearless Hoist Machines, Lode-Master Weighing Devices and Selector Machines.



Petersen Harned Von Maur Department Store, Davenport, Iowa. Geared Passenger Elevators, Geared Freight Elevators.

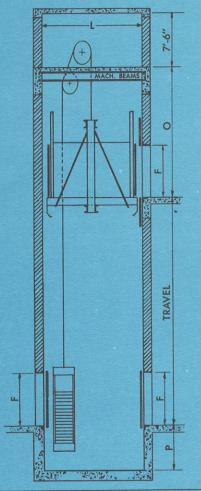


Insurance Company Administration Center.
4 Montgomery Gearless Passenger Elevators with ESP (Electronic Sensor Programming).
Measured Demand Control.



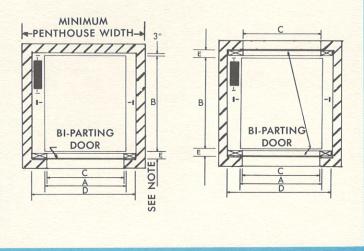
Corporate Administrative Center. 4 Montgomery Geared Passenger Elevators and 1 Montgomery Dual Capacity Geared Service Elevator.

FREIGHT ELEVATORS



TRACTION

Traction Freight Elevators meet and exceed the heavy duty requirements of freight type loading. Special applications are available to meet unusual and hazardous conditions. As an optional feature we recommend our Lodemaster, an automatic load weighing device, which warns against overloading. Also recommended are power operated hoistway doors and car gates for medium and heavy duty installations.



LI	GHT AND	MEDIUM	DUTY FR	EIGHT EL	EVATORS		HEA	VY DUTY P	OWER TRUC	CK FREIGHT	ELEVATOR	S
CAPACITY A B C D L	2500# 5'-4'' 7'-0'' 5'-0'' 7'-4'' 13'-0''	3000# 6'-4'' 8'-0'' 6'-0'' 8'-4'' 14'-0''	4000# 6'-4'' 8'-0'' 6'-0'' 8'-4'' 14'-0''	6000# 8'-4'' 10'-0'' 8'-0'' 10'-4'' 14'-0''	8000# 8'-4'' 10'-0'' 8'-0'' 10'-10'' 14'-0''	10,000# 10'-4" 14'-0" 10'-0" 12'-10" 15'-0"	CAPACITY A B C D	10,000# 8'-4" 12'-0" 8'-0" 11'-4" 14'-0"	12,000# 10'-4" 14'-0" 10'-0" 13'-6" 15'-0"	16,000# 10'-4'' 14'-0'' 10'-0'' 14'-0'' 15'-0''	18,000# 10'-4'' 16'-0'' 10'-0'' 14'-2'' 17'-0''	20,000# 12'-4" 20'-4" 12'-0" 16'-6" 21'-0"

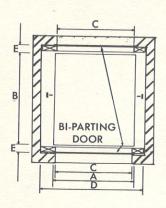
MINIMUM PIT & OVERHEAD DIMENSIONS

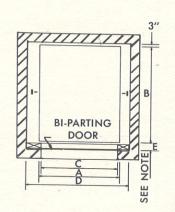
CAR SPEED	50	75	100	200
O P	16'-0'' 5'-6''	16'-0'' 5'-6''	16'-0'' 5'-6''	16'-0'' 6'-0''

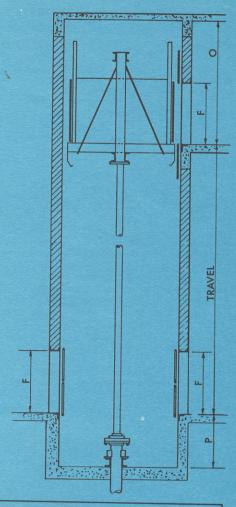
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI code requirements. Local codes may vary these requirements.
- 2. For capacities over 20,000 lbs. or speeds over 200 f.p.m., consult your Montgomery Representative.
- 3. Dimensions E = 5" for regular type counter balanced hoistway doors and 634" for pass type counter balanced hoistway doors.
- 4. Pass type hoistway doors are required when floor heights are less than 11'-6" for 7'-3" openings and less than 14'-6" for 9'-3" openings.
- Dimension F = 7'-0" on light and medium duty; 8'-0" or as required for heavy duty doors. Doors higher than 8'-0" require additional overhead height.
- 6. For large heavy duty doors consult your Montgomery Representative.
- All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

OIL - HYDRAULIC

Oil Hydraulic Freight Elevators are recommended for nominal speed and travel requirements. Features of this type elevator include minimum shaft clearances, economical design of the hoistway, and elimination of the overhead machine room. The recommended machine room location is at the lowest landing adjacent to the hoistway, but can be located in a semi-remote area from the hoistway.







AND RAMPS

LIGHT AN	ID MEDII	UM DUT	Y HYDRA	AULIC FF	REIGHT I	ELEVATO	RS	HEAVY DU	JTY POWER	TRUCK HY	DRAULIC FF	EIGHT ELE	VATORS
CAPACITY	2000#	3000#	4000#	5000#	6000#	7500#	10,000#		10,000#	12,000#	16,000#	18,000#	20,000#
A B C D	5'-0'' 6'-0'' 4'-8'' 6'-4''	5'-6'' 7'-0'' 5'-2'' 6'-10''	6'-6" 8'-0" 6'-2" 7'-10"	8'-6'' 10'-0'' 8'-2'' 9'-10''	8'-6'' 12'-0'' 8'-2'' 10'-6''	8'-6'' 12'-0'' 8'-2'' 10'-6''	10'-6" 14'-0" 10'-2" 12'-6"	A B C D	10'-6'' 14'-0'' 10'-2'' 12'-6''	10'-6'' 14'-0'' 10'-2'' 12'-6''	10'-6'' 16'-0'' 10'-2'' 12'-6''	10'-6" 16'-0" 10'-2" 12'-6"	12'-6" 20'-0" 12'-2" 14'-6"

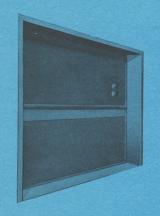
	PIT & OVE	RHEAD DIMEN	SIONS	
SPEED FPM	25	50	75	100
P O(7'-0'' Door) O(8'-0'' Door)	4'-6'' 13'-2'' 14'-2''	4'-6'' 13'-2'' 14'-2''	5'-0'' 13'-2'' 14'-2''	5'-0'' 13'-2'' 14'-2''

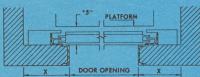
- 1. Machine room sizes vary with car capacity and speed and should be within 20 feet of the hoistway at the lowest landing.
- 2. Pit depths, and overhead clearances are in accordance with ANSI code requirements. Local codes may vary these requirements.
- 3. Layout and dimensions shown for freight elevators based on bi-parting counter-balanced type hoistway doors.

 4. Consult your local Montgomery Office for more information regarding
- Notes 1 and 2.
- 5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

- 1. Dimension E=5" for regular type counter balanced hoistway doors and 634" for pass type counter balanced hoistway doors.
- 2. Pass type hoistway doors are required when floor heights are less than 11'-6" for 7'-3" openings and less than 14'-6" for 9'-3" openings.
- 3. Dimension F=7'-0" on light and medium duty, 8'-0" or as required for heavy duty.
- 4. For capacities over 20,000 lbs. and for large heavy duty doors, consult your Montgomery Representative.

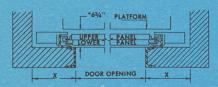
FREIGHT DOORS





FINISH FLOOR HEIGH CLEAR DOOR OPENING

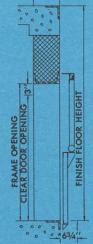
REGULAR TYPE



PASS TYPE

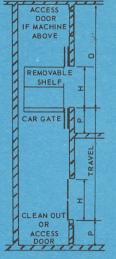
DIMENSION KEY

- X-13" minimum return required for motorized door of either type shown.
- X 9" minimum return required for manual door of either type shown. Minimum pit depth 1/2 door height plus 6". Door frames must extend to floor beam above unless walls are other than poured concrete or brick.
 *Dimension varies with Mfgr's, requirements.

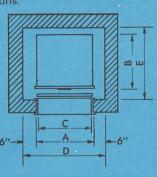


MININ	MINIMUM FLOOR HEIGHT								
according	according to opening height of door								
opening height of door* regular pass									
6 ft. 6 ft. 6 in. 7 ft. 7 ft. 6 in. 8 ft. 8 ft. 6 in. 9 ft. 10 ft. 11 ft.	9 ft. 6 in. 10 ft. 3 in. 11 ft. 11 ft. 9 in. 12 ft. 6 in. 13 ft. 3 in. 14 ft. 15 ft. 6 in. 17 ft.	6 ft. 10 in. 7 ft. 4 in. 7 ft. 10 in. 8 ft. 4 in. 8 ft. 10 in. 9 ft. 4 in. 9 ft. 10 in. 10 ft. 10 in. 11 ft. 10 in. 12 ft. 10 in.							
	ight of frame = c								

DUMBWAITERS-electric



Are available in various speeds and capacities. Optional features include automatic leveling, power operated doors, and various automatic opera-

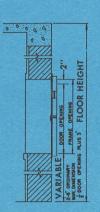


						-	
LOAD		100	20	0	300		400
Α		20"	24	"	30''		36''
B 24"			24	"	30"		36"
*C	18"	22	"	28"		34"	
D	32"	36	"	42"		48"	
**E	28''	28	"	34"		40"	
Н	H 2			"	36"		48''
0	9	'-0''	9'-0)"	9'-0"		10'-0"
***P		30''	30	"	30''		30''
					4 TO		OVER
				6	STOPS		6 STOPS
SPEED F	SPEED FPM				100		150
week Ad-able below UDV at levent lending in OAV minimum							

***If Machine below "P" at lowest landing is 34" minimum.
**If rear door add 2". Add 11/4" for each car gate required.

*One door large enough for removal of car.

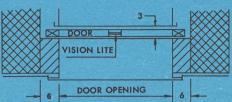




BI-PARTING DUMBWAITER ENTRANCES

ALL DIMENSIONS ARE SHOWN ON DIAGRAM

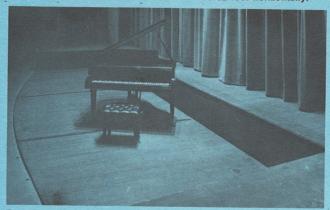
DIMENSION KEY — One opening must be larger than the car so the assembled car can be placed into the hatch. Front walls to be left out until door frames are installed.



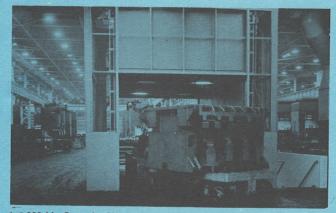
height + 3 in.



Spectacular Stainless Steel Arch of the Jefferson National Expansion Memorial—St. Louis, Missouri—is the tallest monument in the world. Each triangular leg contains a Montgomery Elevator. Due to the 78 degree angle of the legs, a unique feature, while rising (or descending) the 386 feet of travel, each elevator moves 82 feet horizontally.



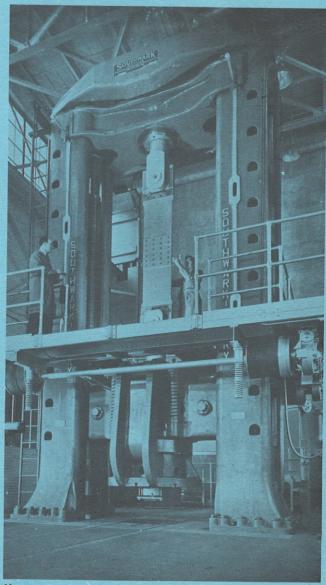
Forestage Lift. 1 of 11 Montgomery units in a large cultural center.



100,000 Lb. Capacity Montgomery Hydraulic Freight Elevators for the Chrysler Corporation Stamping Plant, Detroit, Michigan. These 3 heavy duty hydraulic freight elevators with 14' x 25' platforms were custom designed for handling the enormous (100,000 lb.) stamping dies used in the manufacture of Chrysler cars. Each elevator weighs 40,000 lb. and was pre-assembled and tested at the Montgomery factory, then disassembled for shipment to the job site.

SPECIAL APPLICATIONS

The engineering skills and master craftsmanship of the Montgomery Elevator Company have produced special efficiently operating equipment for many unusual applications, uses and unique designs. Each project required both special engineering and manufacturing.



Montgomery Special Platform Elevator installed on the 3,000,000 Pound Testing Machine in the Materials Testing Laboratory at University of Illinois, Urbana, Illinois.

PARKING GARAGES

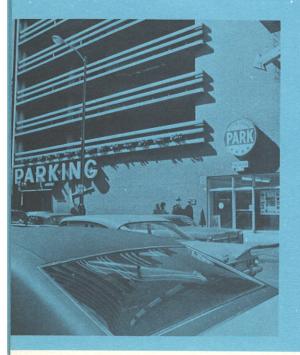
The Montgomery Elevator Company has been a supplier of elevator equipment for elevator crane type parking garages for many years—and NOW includes, in its line, a complete crane elevator system for multiple story parking garages.

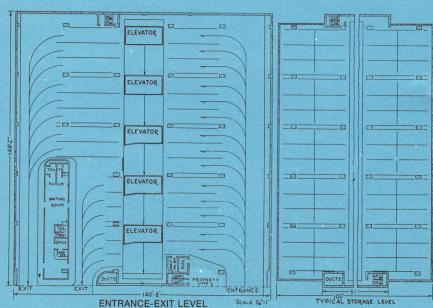
Montgomery Elevator Parking Garages are readily adaptable to the small or limited parking site in congested areas. This type of parking does not destroy the visual continuity of retail trade districts, nor does it distort the municipal tax base, nor depreciate nearby properties. Rather, the parking facility attracts traffic to the area because of the ease, speed and convenience of parking and the proximity of major office buildings, banks, department stores and other business establishments.

Parking Garage Elevators are designed by the same engineering talent that designs Montgomery dependable elevator equipment. Standard elevator equipment has the best safety record of any type of transportation. Floor plans, receiving areas and internal traffic flow for parking garages are engineered with the same safety and operational details.

Parking Garage Elevators increase earning capabilities by - 1, lower total labor cost - 2, more efficient use of small parking sites - 3, engineered use of 'air space' - 4, greater convenience in location of garage - 5, faster operation.

The high-speed operation of Montgomery elevators cuts customer waiting time to a minimum both into and out of the parking facility. This feature is a definite attraction to the customer, and it is not limited to the small low-rise parking site, but may include parking facilities for 500 or more cars.





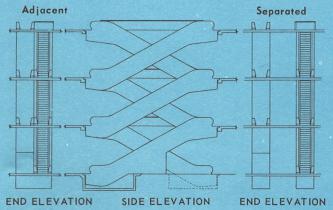
ESCALATORS

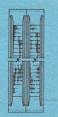


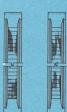
Woodwards, Southgate Shopping Centre, Edmonton, Alberta. 4 - 48" Glass Escalators, 1 Passenger Elevator and 2 Freight Elevators.



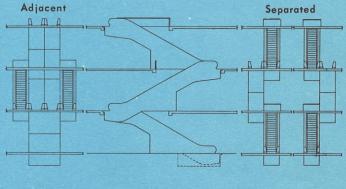
Cadillac Division Headquarters Building, General Motors Corporation, Detroit, Michigan. 4 - 48" Escalators, 2 Freight Elevators and 1 Turn Table.











SIDE ELEVATION END ELEVATION



CRISS-CROSS ARRANGEMENT

PARALLEL ARRANGEMENT

ESCALATORS

STANDARD EQUIPMENT INCLUDES

complete truss fabricated of seamless steel tubes; precision worm gear drive; roller and ball bearings throughout; flange mounted motor; portable controller; complete electrical and mechanical safety system; reversing rotations; interchangeable precision assembled steps with cleated risers; matched endless step chains; accurately aligned track system; complete balustrade including skirts; inner panels, decks and endless moving neoprene rubber handrail; floor access covers to upper and lower machinery well both within truss area. Decorator panel exterior covering of balustrade, truss and soffit is optional. Crystal balustrades are optional.

REQUIREMENTS

- 1. Floor around escalator is not to be laid until escalator is installed.
- 2. Flooring within 8" of escalator floor access doors (top and bottom) is not to be laid until floor access doors are in place.
- Electric conduits, sprinkler pipes or soffit lights must be installed entirely outside of truss at all points except where codes require sprinkler protection of escalator machinery. Consult Montgomery for location within truss.
- No walls or other parts of building structure are to be carried on truss.
- 5. Fill and finish flooring for access doors.

OWNER TO PROVIDE AND INSTALL THE FOLLOWING

- 1. All escalator supports including bearing plates if concrete beams are used.
- 2.3 phase, 60 cycle power supply and 110 volt light supply to controller.
- Combination lamp receptacle and convenience outlet in machine room and lower reversing station.
- Paper backed wire lath or its equivalent to be used for plaster enclosure of escalator.
- 5. All items marked "by others."

SUGGESTED WIRING ARRANGEMENT

			40	32" #3E " OR 48" #	ESCALA #5E ESC	TOR - S	90 FPM - 90 FPM		0 H.P.		.9'-10'' .9'-10''	TO 18'-1 TO 16'-5	1" FLOOR 5" FLOOR	HEIGH HEIGH	T T				1 1 A	h
	208 – 22	20V (B PHASE	60 CY	CLE		440	0-480V	/ 3 PI	HASE 60	CYCLE		55	50 – 600	V 3	PHASE 6	0 CYCL	E		
NO. OF ESCA- LATORS	SWITCH	FUSE SIZE	FUSE- TRON SIZE		TYPE	CON- DUIT	SWITCH	FUSE SIZE	FUSE TRON SIZE	BRANCH CIRCUIT & FEEDER	WIRE TYPE RH	CON- DUIT	SWITCH	FUSE SIZE	FUSE- TRON SIZE	BRANCH CIRCUIT & FEEDER	WIRE TYPE RH	CON- DUIT	1 2 A	
1	1A M	90 90	45 45	B F1	#6 #6	1"	1A M	45 45	25 25	B F1	#8	3/4'' 3/4''	1A M	40 40	20	B F1	#12 #12	1/2"		-F4-
2	1A-2A M	90 150	45 90	B F2	#6 #2	1" 1¼"	1A-2A M	45 70	25 45	B F2	#8 #6	3/4" 1"	1A-2A M	40 60	20 40	B F2	#12 #10	1/2'' 3/4''	1 3	F2-F3
3	1A-2A-3A M	90 175	45 125	B F3	#6 #0	1" 2"	1A-2A-3A M	45 90	25 70	B F3	#8 #4	3/4" 11/4"	1A-2A-3A M	40 80	20 60	B F3	#12 #8	1/2'' 3/4''	Ä	Д#.
4	1A-2A 3A-4A M	90 200	45 175	B F4	#6 #00	1" 2"	1A-2A 3A-4A M	45 100	25 90	B F4	#8 #2	3/4" 11/4"	1A-2A 3A-4A M	40 80	20 80	B F4	#12 #6	1/2"	A	. IĪ
									4 A											
			4(32'' #3 0'' (#4E) OI	E ESCAI R 48" (#	LATOR –	90 FPM ALATOR-S		5 H.P.		18'-1'' 16'-5''	TO 21'-4	4" FLOOR 4" FLOOR	HEIGH HEIGH	T T					4
	208 – 22	0V 3	PHASE	60 CY	CLE		44	0-480V	/ 3 P	HASE 60	CYCLE		55	60 – 600	V 3	PHASE 6	0 CYCL	E		
NO. OF ESCA- LATORS	SWITCH	FUSE SIZE	FUSE- TRON SIZE	BRANCH CIRCUIT & FEEDER	TYPE	CON- DUIT	SWITCH	FUSE SIZE	FUSE- TRON SIZE	BRANCH CIRCUIT & FEEDER	WIRE TYPE RH	CON- DUIT	SWITCH	FUSE SIZE	FUSE- TRON SIZE	BRANCH CIRCUIT & FEEDER	WIRE TYPE RH	DUIT		SWITCH BOARD M
1	1A M	125 125	60 60	B F1	#4 #4	11/4"	1A M	60 60	30 30	B F1	#6 #6	1"	1A M	50 50	25 25	B F1	#10 #10	3/4'' 3/4''		
2	1A-2A M	125 175	60 150	B F2	#4 #0	11/4"	1A-2A M	60 90	30 70	B F2	#6 #4	1"	1A-2A M	50 80	25 60	B F2	#10 #6	3/4" 1"		
3	1A-2A-3A M	125 250	60 200	B F3	#4 #000	11/4"	1A-2A-3A M	60 125	30 90	B F3	#6 #2	1" 1¼"	1A-2A-3A M	50 100	25 80	B F3	#10 #3	3/4'' 11/4''		
4	1A-2A 3A-4A	125	60	B	#4	11/4"	1A-2A 3A-4A	60	30	B	#6	1"	1A-2A 3A-4A	50	25	B	#10	3/4''		

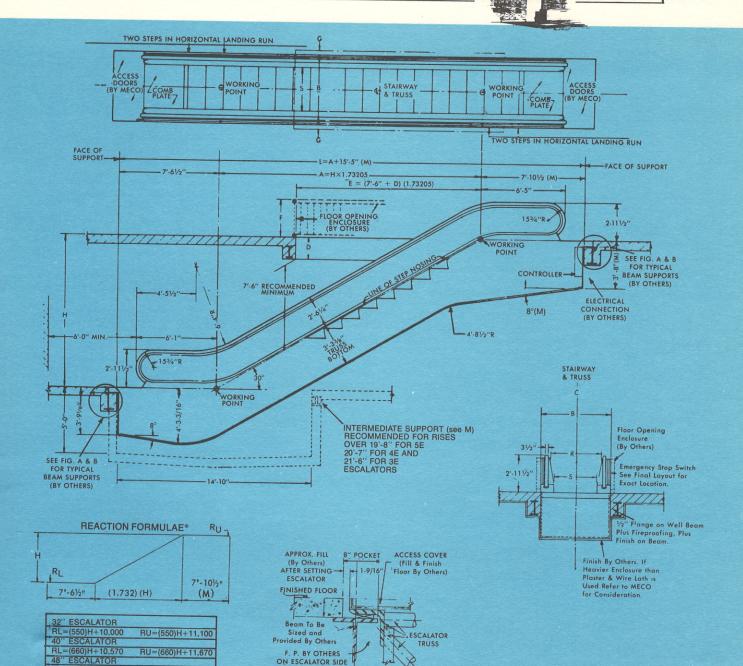
POWER DATA

	VALID ONLY FOR 3 PHASE, 60 CYCLE										
208 VOLTS 220 VOLTS 440 VOLTS 480 VOLTS 550 VOLTS									/OLTS		
HORSE POWER 10 15	STARTING CURRENT 118A 174A	RUNNING CURRENT 36.2A 53.5A	STARTING CURRENT 112A 165A	RUNNING CURRENT 34.2A 50.6A	STARTING CURRENT 56A 83A	RUNNING CURRENT 17.1A 25.3A	STARTING CURRENT 51A 75A	RUNNING CURRENT 15.6A 23.2A	STARTING CURRENT 45A 66A	RUNNING CURRENT 13.7A 20.2A	

CONTACT ANY OF OUR SALES AND SERVICE OFFICES TO OBTAIN EXPERT PLANNING ASSISTANCE INCLUDING COMPLETE LAYOUT AND SPECIFICATIONS

AND RAMPS

ELEVATORS / ESCALATORS / POWER WALKS



*Includes weight of metal lath and plaster covering on sides and soffit.

LAYOUT NOTE:

RL=(660)H+11,650

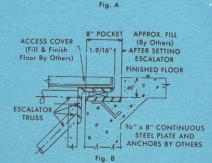
The following information, when available, must be shown on all layouts for use of the balustrade manufacturer. D-Dimension from finished floor to the finished plaster

RU=(660)H+12,750

ceiling or bottom of smoke guard. E-F-G-Detail and kind of wellway railings or fire shutter enclosures which are not furnished by the balustrade manu-

K—Dimension from bottom of truss to finished soffit. Lower soffit for lighting and sprinkler as required.

M—Upper working distance is 10'-3" for California installations only. Total wellway length (L=A+17'-9½"). Depth of truss at upper support will be 4'-6" and will decline at (3) degrees. Bedure intermediate transports. degrees. Reduce intermediate support recommended rises



AFTER TRUSS IS SET

	WIDTH CHART									
Model No.	Per H	acity our At 120fmp	Rated Width R	Step Width S	Over-All Width B	Well Width Rough Opening				
3E 4E 5E	5,000 7,000 8,000	6,500 9,000 10,000	32" 40" 48"	24" 32" 40"	4'-4'' 5'-0'' 5'-8''	Over-All Width B+2"				

1. Other speeds available.

2. Includes exterior decorator panels (fire-rated) rigidly fastened and trimmed with color anodized aluminum shapes by Montgomery or lath and plaster by others.

3. Enclosure between rough opening and finished escalators to be provided by others.

ESCALATORS

move more people at lower cost per passenger than any other form of vertical transportation. They may be the primary carrier in retail buildings, in transportation terminals and in highly populated office buildings, or can effectively augment elevator systems, especially in the high rise office buildings. Operating from main floors to: lower parking levels, mezzanine or second floor shops and restaurants, or top elevator floor to penthouse restaurants. Escalators provide the most efficient transportation in these heavy traffic locations, allowing elevator systems to serve other areas of the building more efficiently.

EFFICIENCY—two steps on the same level at entry and exit speeds and safeguards traffic "a montgomery exclusive."

SAFETY – more and better safety devices than any other escalator.

APPEARANCE – durable modern materials retain attractive appearance.

LOW COST MAINTENANCE-attained by high quality equipment.

DEPENDABILITY-quickly and easily servicedless "down" time.

Theater Building, Tysons Corner, Montgomery County, Maryland. 1 - 48" Escalator of 9 Escalators installed in Tysons Corner Center.



TYPICAL MONTGOMERY ESCALATOR USERS

RETAIL

Simpsons-Sears Ltd.-Canada Federated Department Stores F. W. Woolworth Company J. C. Penney Company, Inc. J. J. Newberry Company May Company Marshall Field & Company Montgomery Ward & Company R. H. Macy Company Sears Roebuck & Company T. Eaton Company, Ltd. Woodward & Lothrop, Inc. Woodward Dept. Stores, Canada Mercantile Stores Co., Inc. Associated Dry Goods Company Hudson Bay Co.-Canada City Stores Co.

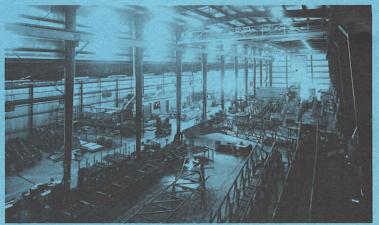
OFFICE - BANK - HOTEL

General Motors Corporation Hilton Hotels Company San Diego Imperial Corp. Hotel Vancouver Blue Cross - Blue Shield U.S. House of Representatives Office Bldg. LTV Tower-NBC Office Bldg., Dallas Lockheed California Co. Houston First Federal Savings-Loan Assn. Wichita Plaza Office Bldg. Federal Office Building, Kansas City Exchange Park Building, Dallas Muehlebach Hotel, Kansas City Caterpillar Tractor Co. Ford Motor Company Connecticut General Insurance Co. Sheraton - Brock Hotel, Niagara Falls

TRANSPORTATION & PUBLIC

Montreal Forum Ottawa, Canada Union Station San Francisco International Airport Montreal Mass Transit System Boston Subway, Mass. Transit Authority Detroit Cobo Hall Victoria Museum-Exhibit Center New Orleans International Exhibit Center Denver Stapleton Airport Dallas Love Field Chicago Transit Authority Toronto Science & Technology Center Tampa International Airport Detroit Metropolitan Wayne County Airport Toronto Transit Commission Honolulu International Airport San Francisco-Rapid Transit-BARTD

Interior view of new Montgomery Escalator Factory showing escalator trusses in various stages of manufacture.



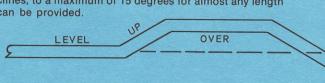
ELEVATORS / ESCALATORS / POWER WALKS

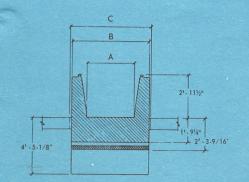


North Point Shopping Center, San Francisco, California, served by two (2) 40" Montgomery Power Ramps and Montgomery Elevators.

ARRANGEMENTS

Any arrangement or combination of horizontal and inclines, to a maximum of 15 degrees for almost any length can be provided.





POWER WALKS & POWER RAMPS

provide fast safe, high-volume horizontal, or combined horizontal and inclined (to 15 degrees) transportation of people within buildings, or outdoors. Exposition centers, stadiums, auditoriums, transportation terminals, parking lots to buildings and in or out of buildings are a few walk-ramp applications to transport people where walking is not advantageous.

AND RAMPS

STANDARD EQUIPMENT INCLUDES

complete truss fabricated of seamless steel tubes; precision worm gear drive; roller and ball bearings throughout; flange mounted motor; portable controller; complete electrical and mechanical safety system; reversing stations; interchangeable precision assembled treadway pallets with interlocking treads on adjacent pallets; matched endless pallet chains; accurately aligned track system; complete balustrades including inner panels; decks with endless moving neoprene rubber hand rail (color available); and floor access covers to upper and lower machinery wells both within truss area. Decorator panel exterior covering of balustrade, truss and soffit is optional.

CONSULT MONTGOMERY

Contact your local Montgomery representative or the Montgomery Elevator Company, Moline, Illinois, for application data, and layout or specification data needed to plan a complete installation.

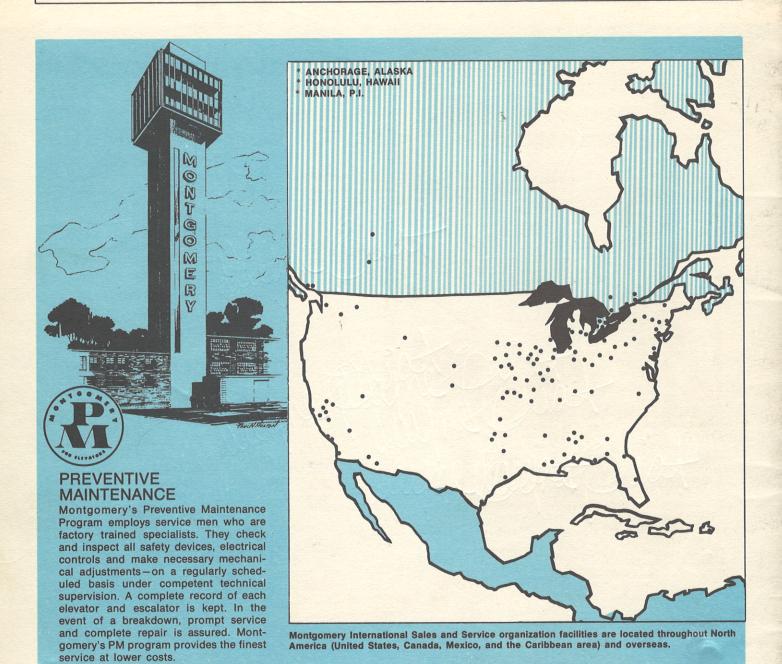
LEVEL

WIDTHS:

UNDER

Three standard tread widths are 24", 32" and 40". The 24" width accommodates one adult; the 32" width provides ample room for adult and child or adult and shopping cart; the 40" width accommodates two adjacent adults or adult with luggage.

			33-3-		
MODEL NO.	TREAD WIDTH	OVERALL WIDTH DECORATOR PANEL OR LATH & PLASTER EXTERIOR COVERING	WELL WIDTH ROUGH OPENING		
	Α	В	C		
3W 4W 5W	24'' 32'' 40''	4'-4'' 5'-0'' 5'-8''	OVERALL WIDTH B +2''		



montgomery®

Montgomery Elevator Company, Moline, Illinois 61265 Montgomery Elevator Co. Limited, Toronto, Ontario Offices in principal cities of North America